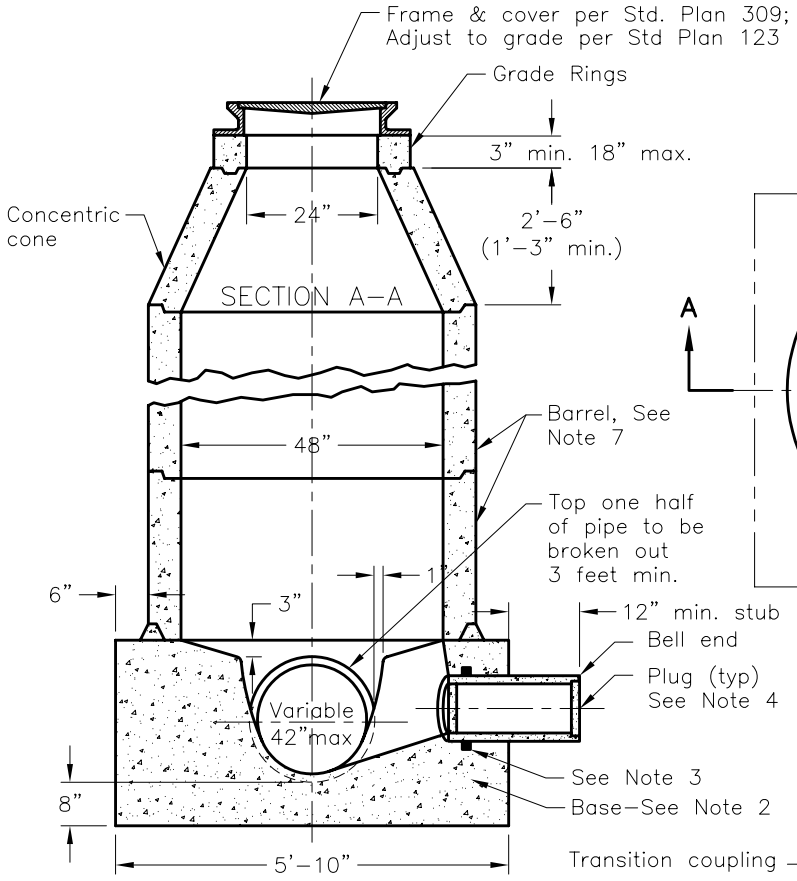
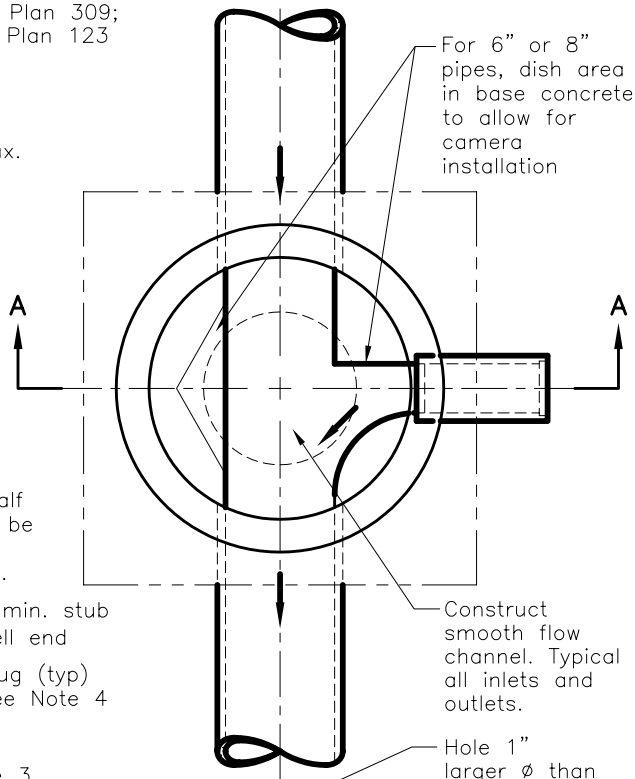
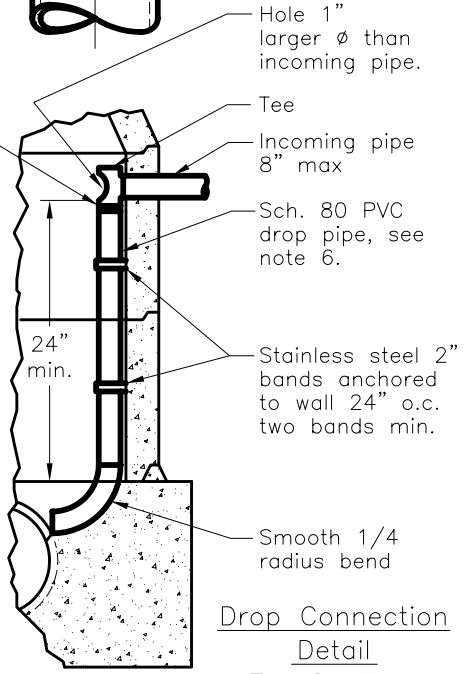
CITY OF LODI

PUBLIC WORKS DEPARTMENT

48" Manhole







Drop Connection Detail
For Sanitary Sewer only

Notes:

1. Barrel, cone and grade ring sections shall conform to ASTM C478, latest revision. Manufacturer to be approved by the engineer.
2. Base shall consist of cast-in-place Class B concrete per Sec. 90 Caltrans Std Specification. Prefabricated bases shall conform to Note 1 and be placed on 4" of concrete or 3/4" Class II AB Bedding.
3. Rubber ring waterstop or manhole adapter required for PVC pipe installations.
4. Plugs shall be compression type as approved by the Engineer.
5. Backfill around MH shall be compacted to 95% R.C. min.
6. Drop connection to be used only when shown on the plans or approved by the Engineer. Drop pipe to be one size larger than the incoming pipe.
7. All barrel joints shall be grouted inside and outside or sealed Ram-nek or approved equivalent.

Dr. KT	No.	Date	Revision	Appr.
Ch. WS				
Date 12/00				

Approved By:

F. Wally Sandelin
City Engineer
R.C.E. 39895

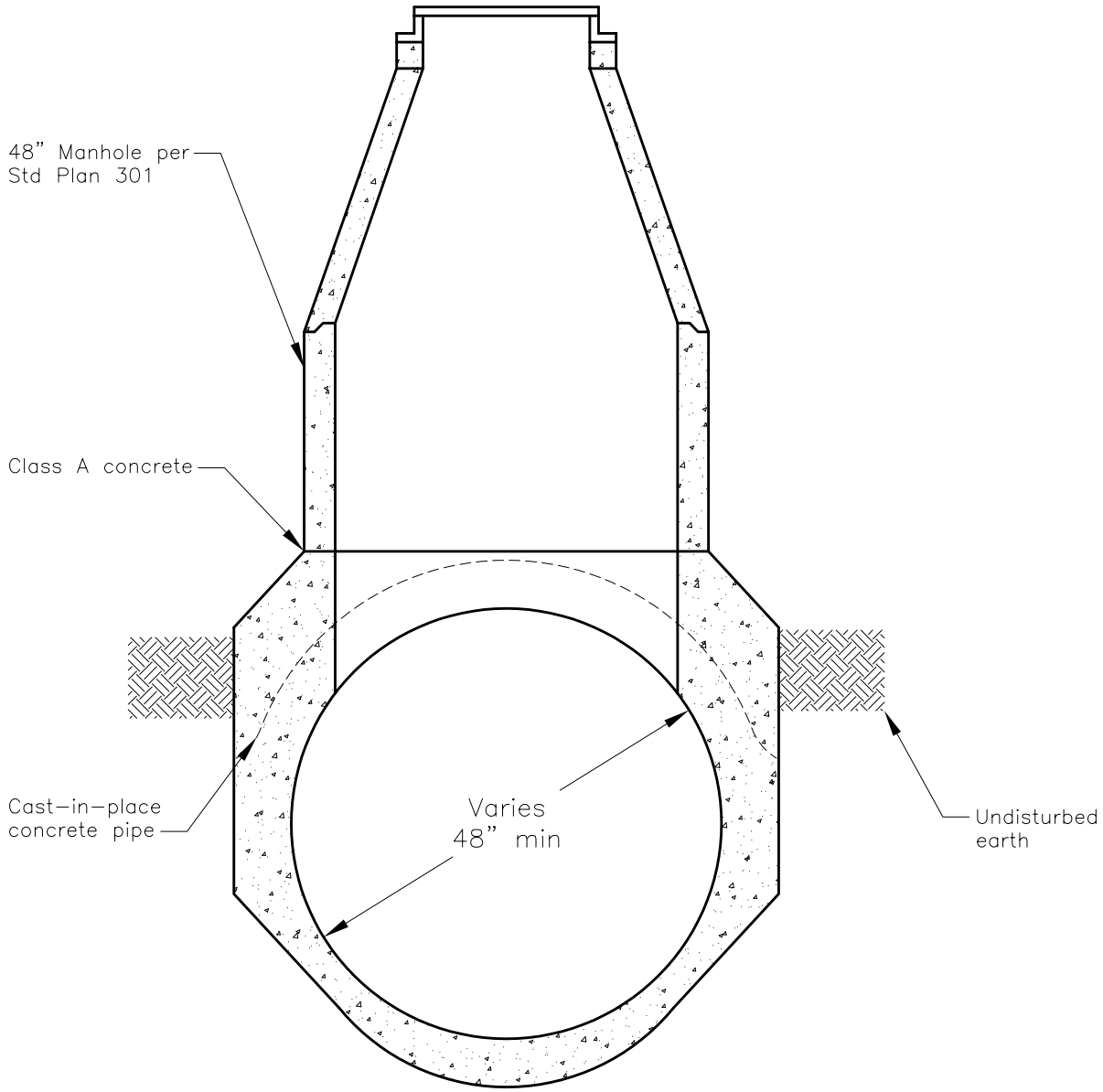
12/28/00
Date

STD PLAN
301

CITY OF LODI

PUBLIC WORKS DEPARTMENT

Saddle Manhole



Notes:

1. Make manhole opening in top of pipe before concrete sets and place barrel within following 7 days.
2. Grout all joints.

Dr. KT	No.	Date	Revision	Appr.
Ch. WS				
Date 12/00				

Approved By:

F. Wally Sandelin
City Engineer
R.C.E. 39895

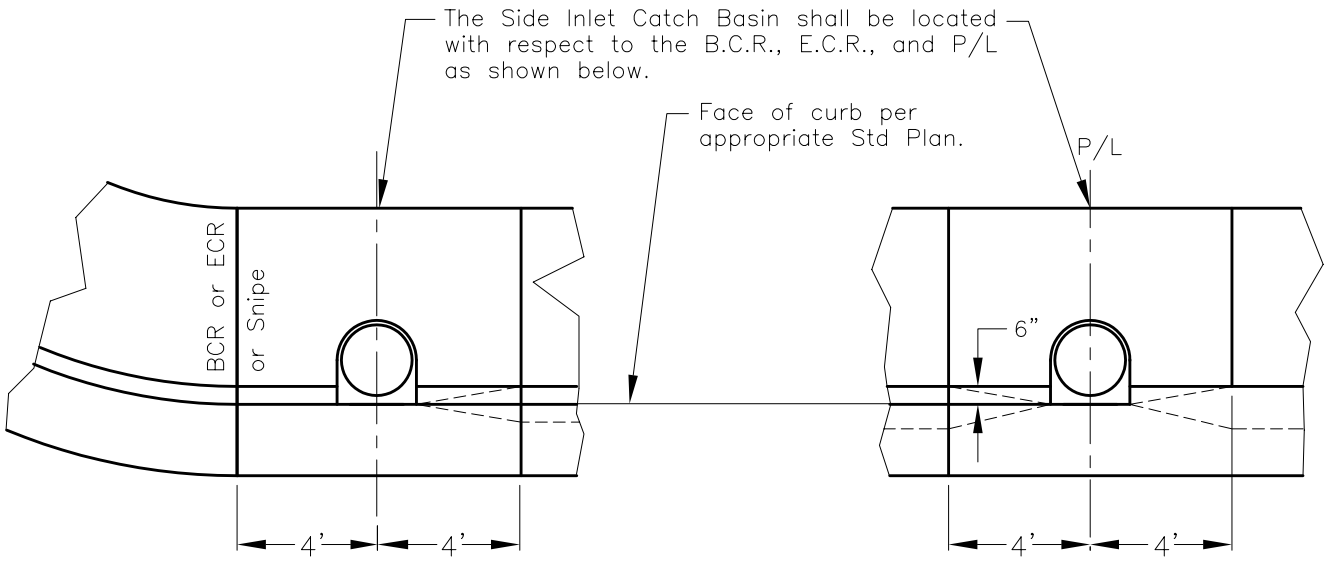
12/28/00
Date

STD PLAN 302

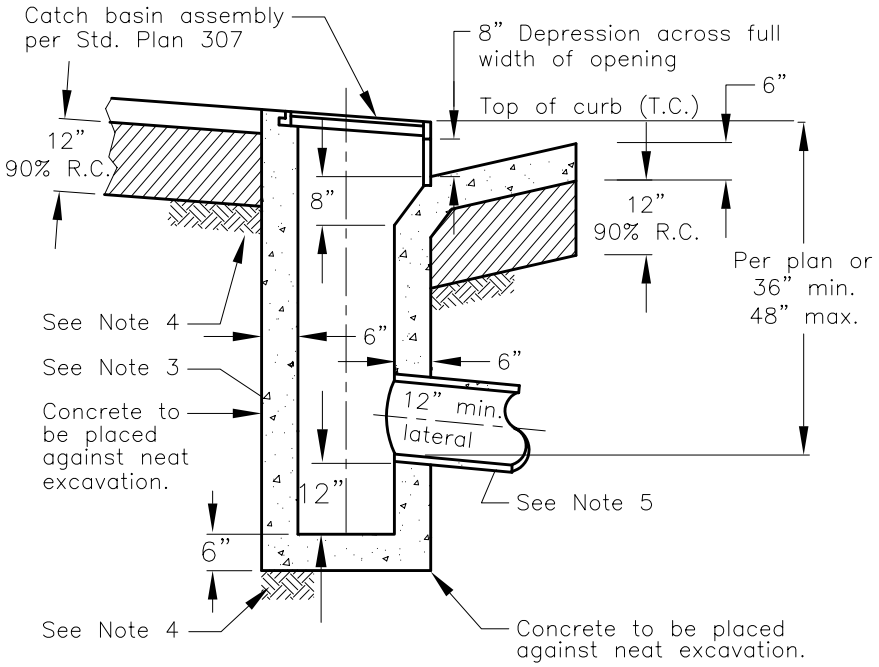
CITY OF LODI

PUBLIC WORKS DEPARTMENT

Side Inlet Catch Basin



Flowline and curb transition (typ.)



Notes:

1. The concrete shall conform to following criteria.
   A. 2500 P.S.I. at 28 days.
   B. 1 1/2" maximum aggregate.
   C. 4" slump at placing site.
   D. Light broom finish.
   E. Impervious membrane cure.
2. When catch basin is to be constructed with stub, the stub shall extend beyond the toe of the curb & gutter and plugged with precast plug.
3. Barrel may be constructed with 18" R.C.P. and grouted smooth.
4. Recompact over–excavated areas to 92% R.C.
5. Lateral line must be ductile iron pipe when cover is 2' or less.
6. For trench backfill requirements See Std. Pln 501.

Dr. KT	No.	Date	Revision	Appr.
Ch. WS	1	7/01	Update per first revision	
Date 12/00				

Approved By:

F. Wally Sandelin
City Engineer
R.C.E. 39895

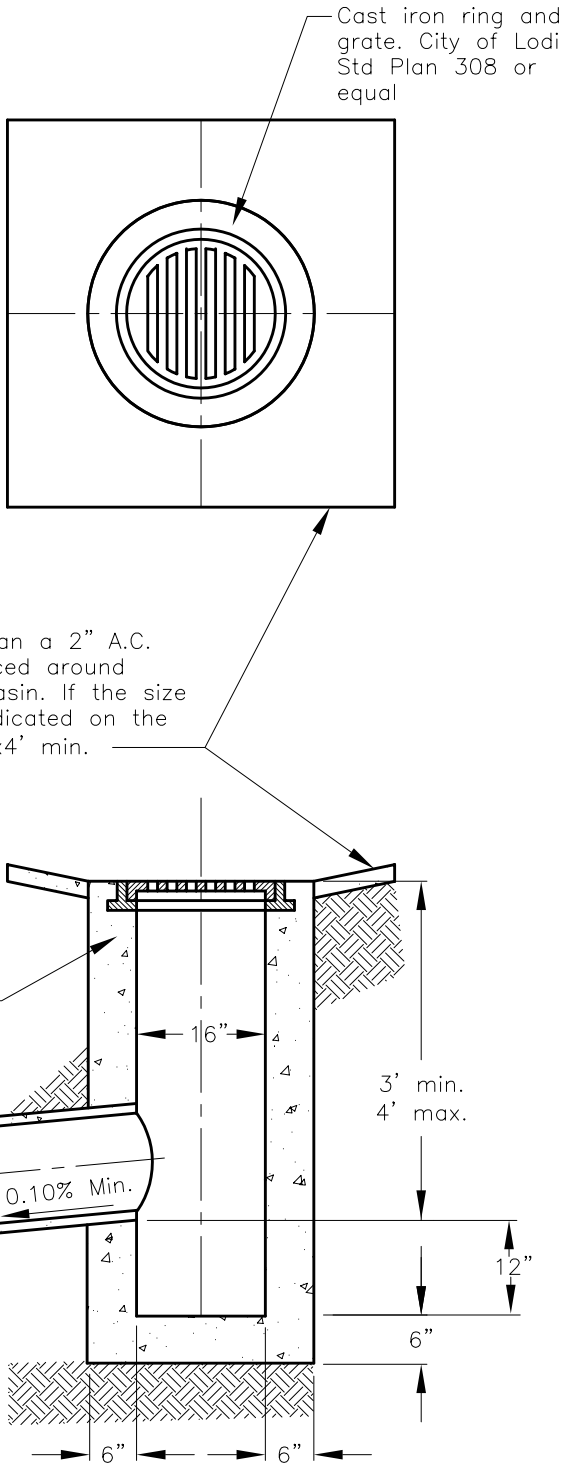
12/28/00
Date

STD PLAN
303

CITY OF LODI

PUBLIC WORKS DEPARTMENT

Drop Inlet Catch Basin



Notes:

1. Conc. 2500 psi at 28 days
   1 1/2" max. agg.
   4" slump at placing site.
   Light broom finish.
   Impervious membrane cure.
2. For trench backfill requirements see Std Plan 501.
3. For 24" catch basin, use Std Plan 310 with slotted cover.
4. Alternate construction–use 18" RCP, grout all openings and voids smooth.

Dr. KT	No.	Date	Revision	Appr.
Ch. WS				
Date 12/00				

Approved By:

F. Wally Sandelin
City Engineer
R.C.E. 39895

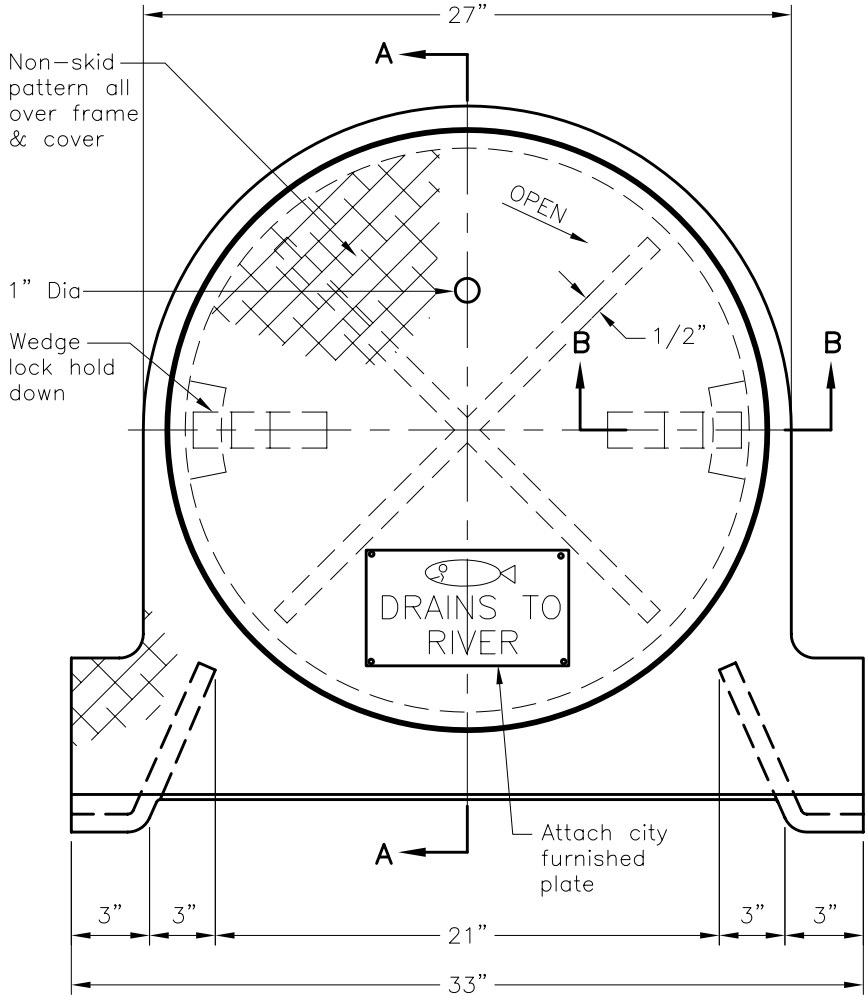
12/28/00
Date

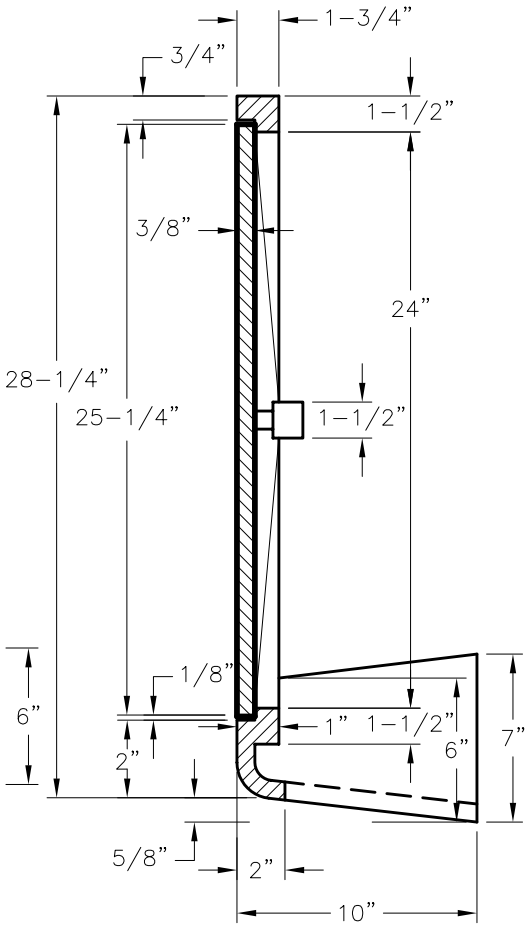
STD PLAN
304

CITY OF LODI

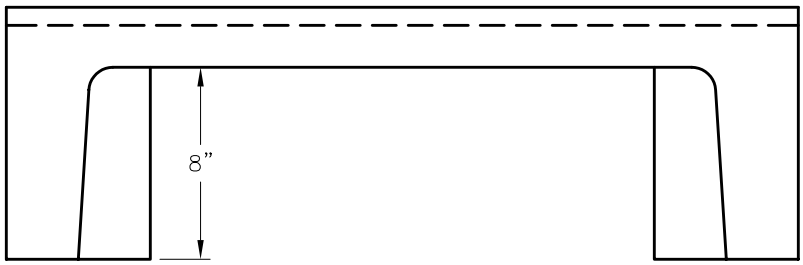
PUBLIC WORKS DEPARTMENT

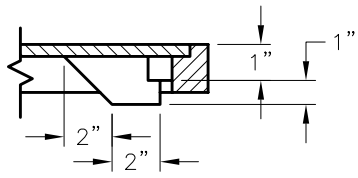
Catch Basin Assembly
Curb Inlet Sidewalk Type





Section A–A





Section B–B

Notes:

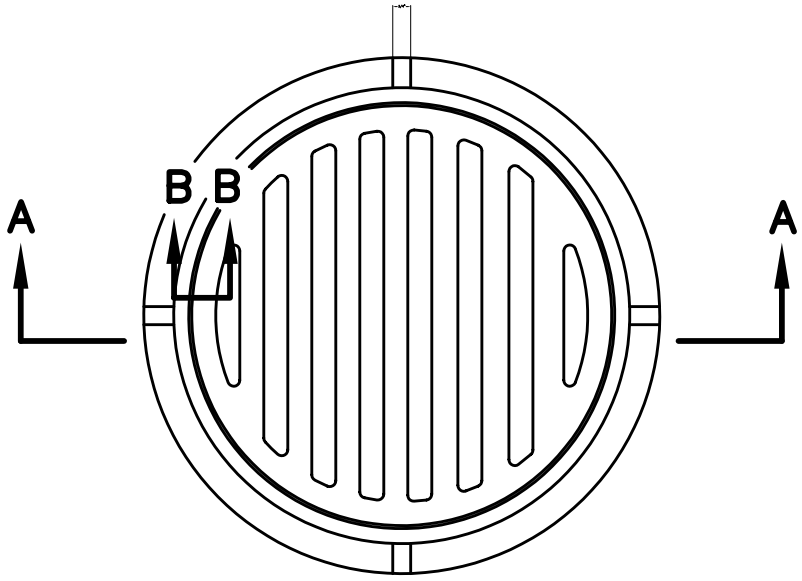
1. California Concrete Pipe A–434, Catch Basin Assembly or equal.
2. Approx. Wt. 160 Lbs.
3. Material – Cast Iron.

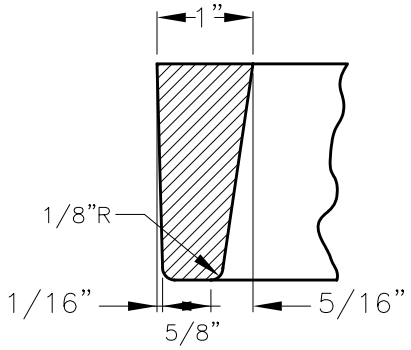
Dr. KT	No.	Date	Revision	Appr.	Approved By:	STD PLAN
Ch. WS					F. Wally Sandelin 12/28/00	307
Date 12/00					F. Wally Sandelin City Engineer R.C.E. 39895 Date	

CITY OF LODI

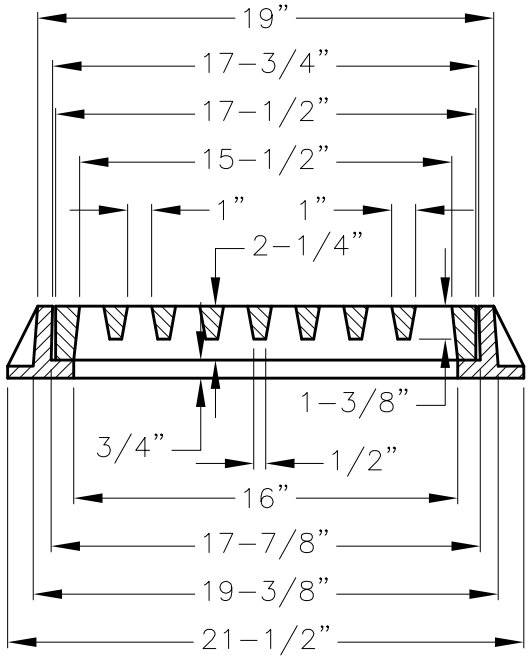
PUBLIC WORKS DEPARTMENT

Drop Inlet Catch Basin Assembly





Section B–B



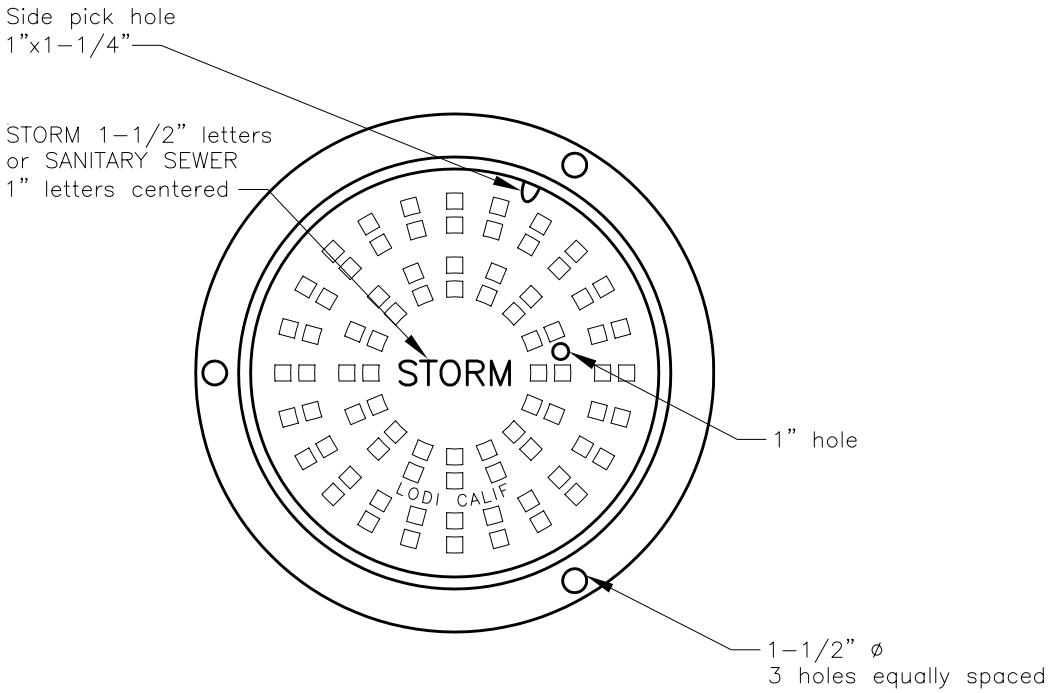
Section A–A

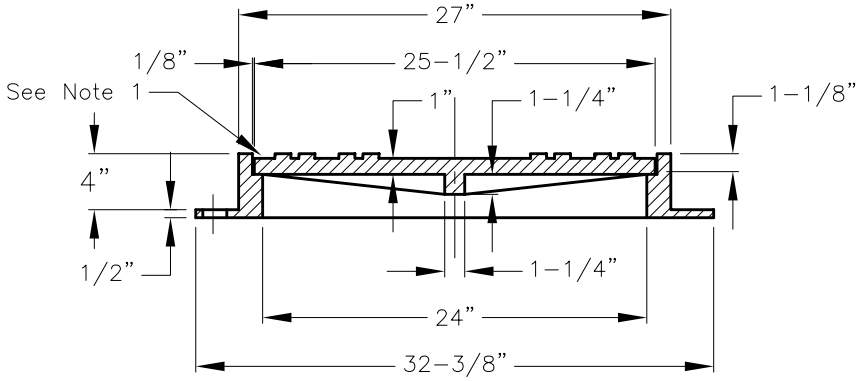
Dr. KT	No.	Date	Revision	Appr.	Approved By:	STD PLAN
Ch. WS					F. Wally Sandelin 12/28/00	308
Date 12/00					F. Wally Sandelin, City Engineer, R.C.E. 39895 — Date	

CITY OF LODI

PUBLIC WORKS DEPARTMENT

Manhole Assembly (24")





Notes:

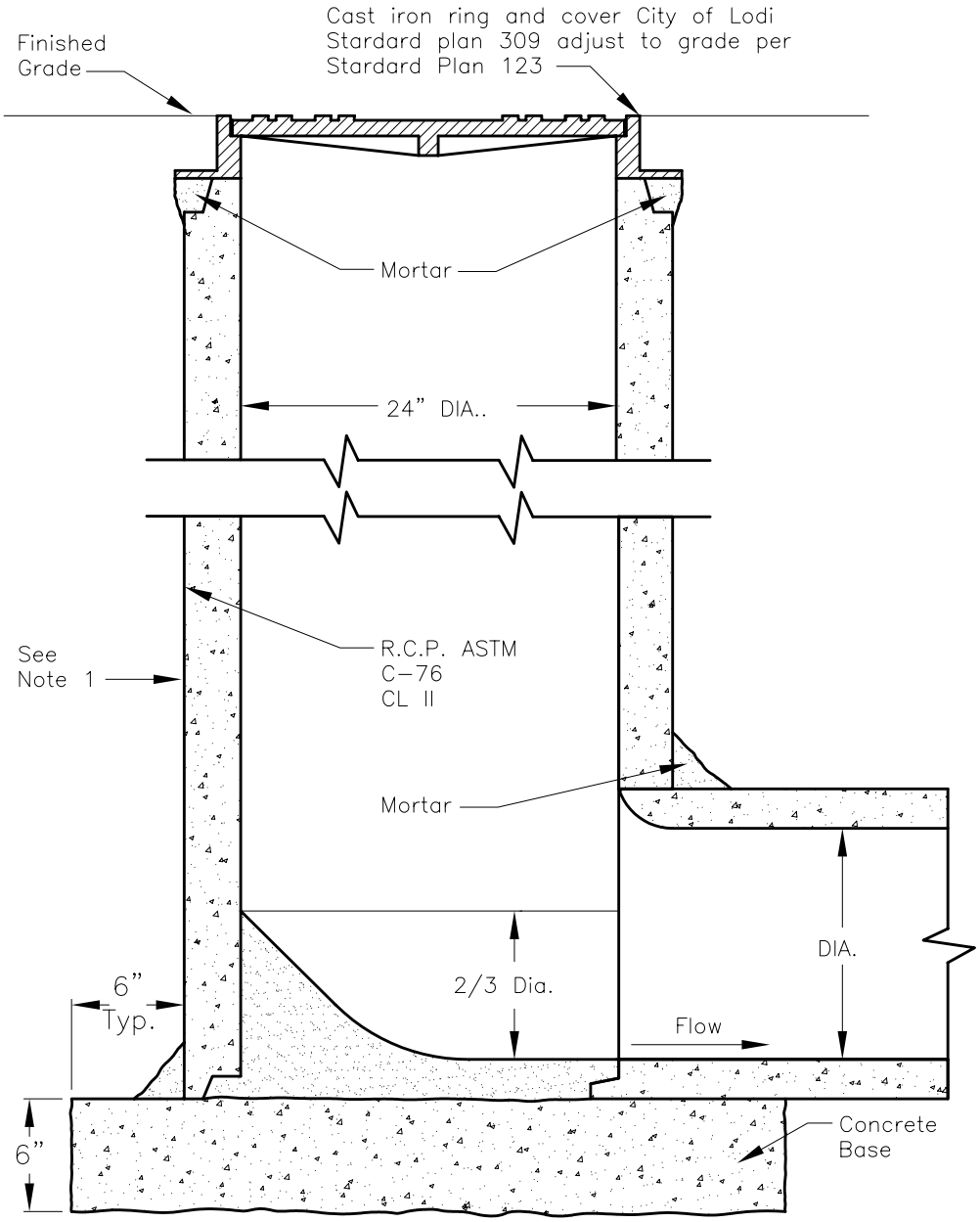
1. Frame–Approx. wt. 140 lbs.
2. Cover–Approx. wt. 136 lbs.
3. Manhole cover shall be marked "STORM" or "SANITARY SEWER" as appropriate.
4. Material–Cast Iron per ASTM A-48 Class 30
5. See Std. Plan 123 for adjustment to grade.

Dr. KT	No.	Date	Revision	Appr.	Approved By:	STD PLAN
Ch. WS					F. Wally Sandelin 12/28/00	309
Date 12/00					F. Wally Sandelin, City Engineer, R.C.E. 39895 — Date	

CITY OF LODI

PUBLIC WORKS DEPARTMENT

24" Riser



Notes:

1. Backfill around riser shall be a minimum of 92% R.C.
2. Concrete:
   A. 2500 psi @ 28 days
   B. 4' slump maximum.
   C. Class B per Section 90 of Standard Specifications. 1-1/2" max. agg.
3. For depth over 60", use 48" manhole, Standard Plan 301.
4. For trench backfill requirements, See Standard Plan 501.

Dr. KT	No.	Date	Revision	Appr.
Ch. WS				
Date 12/00				

Approved By:

F. Wally Sandelin
City Engineer
R.C.E. 39895

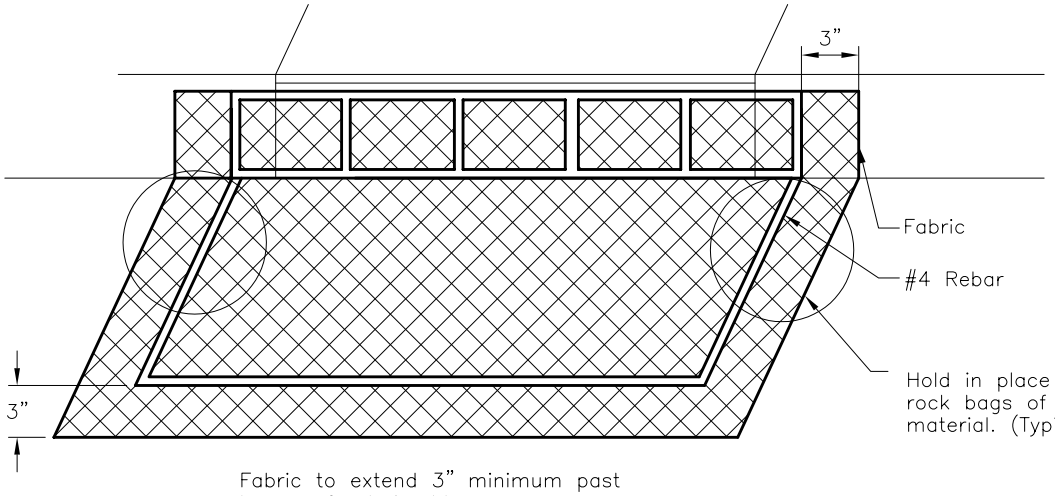
12/28/00
Date

STD PLAN
310

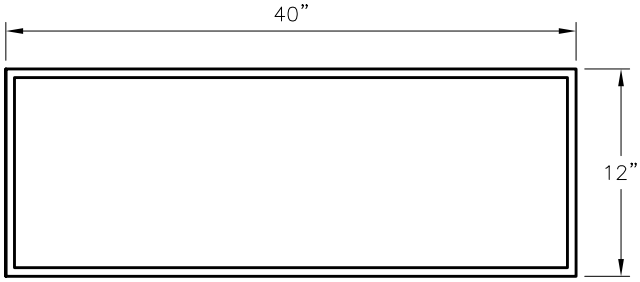
CITY OF LODI

PUBLIC WORKS DEPARTMENT

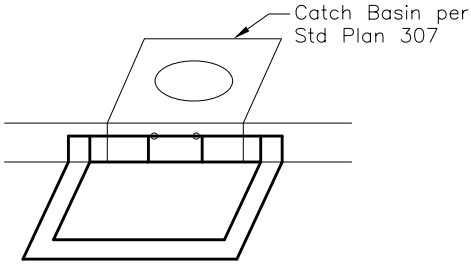
Construction Catch Basin Filter

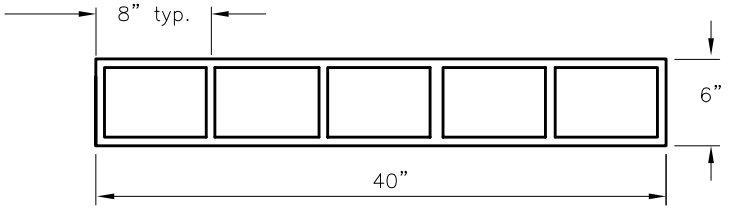


Fabric to extend 3" minimum past bar on front & sides.

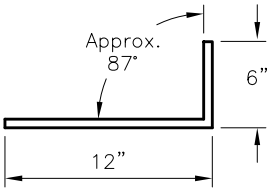


Top





Front



Side

Notes:

1. Will be maintained weekly and/ or after every storm.

Dr. KT	No.	Date	Revision	Appr.
Ch. WS				
Date 12/00				

Approved By:

F. Wally Sandelin
City Engineer
R.C.E. 39895

12/28/00
Date

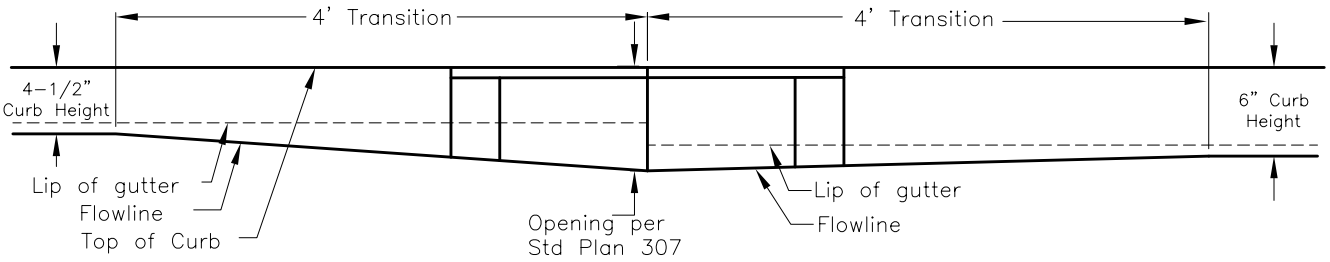
STD PLAN

313

CITY OF LODI

PUBLIC WORKS DEPARTMENT

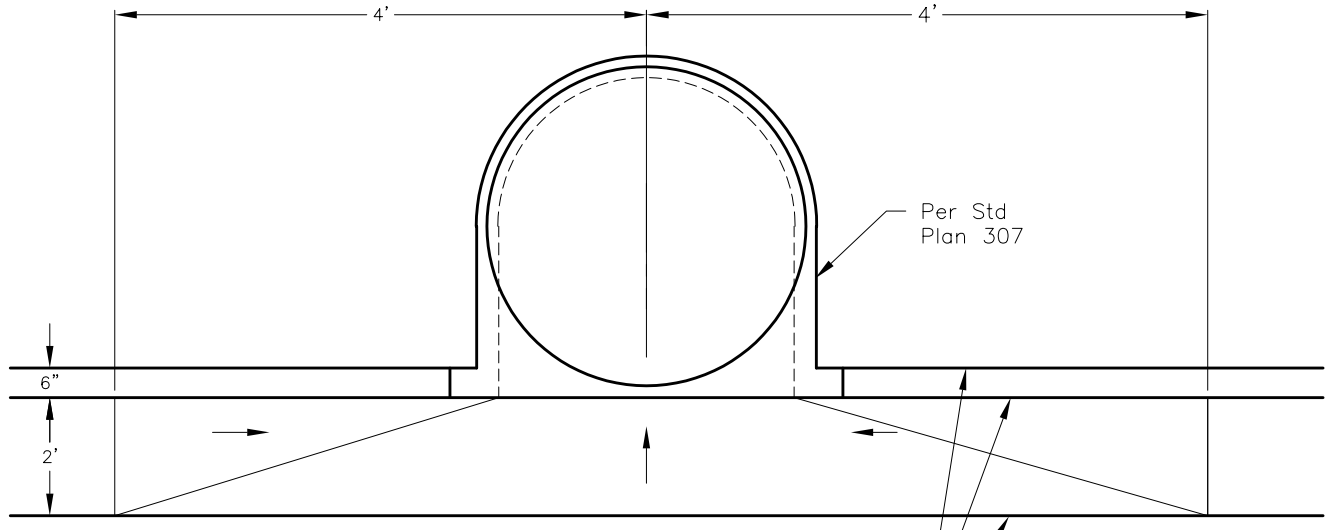
Gutter Transition Detail



Left side for 4–1/2" Curb Height

Gutter Transition Detail

Right side for 6" Curb Height



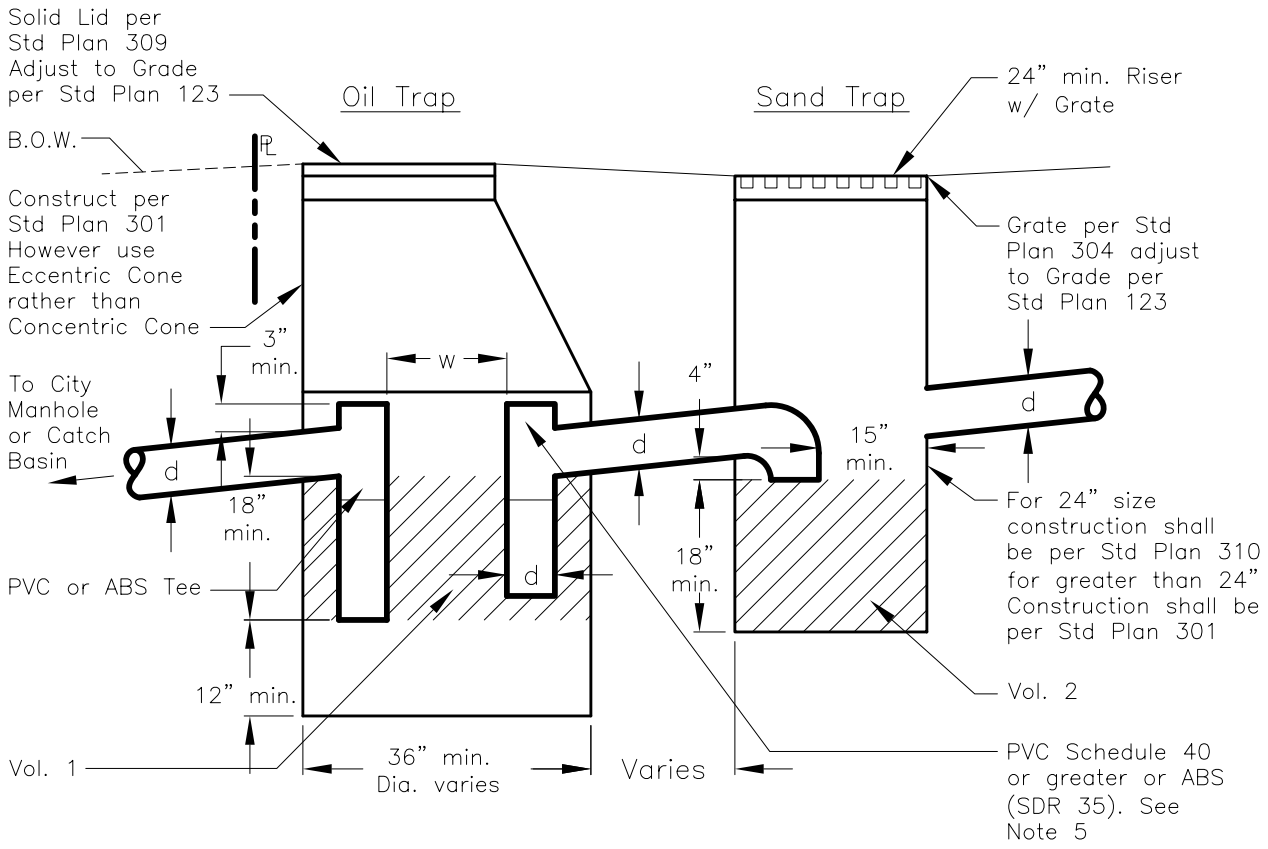
Plan View

Dr. KT	No.	Date	Revision	Appr.	Approved By:	STD PLAN
Ch. WS					F. Wally Sandelin 12/28/00	314
Date 12/00					F. Wally Sandelin, City Engineer, R.C.E. 39895 — Date	

CITY OF LODI

PUBLIC WORKS DEPARTMENT

Sand/Oil Trap



Drainage Area (s.f.) (Excluding Landscaping)	Vol. 1 cu. ft.	d	w	Vol. 2 Combined all C.B.'S cu.ft.
0 – 20,000	3	6"	12"	Drainage Area ÷ 4000
20,000 – 40,000	6	8"	16"	
40,000 – 100,000	10	10"	20"	
100,000 – 220,000	12	12"	24"	

Notes:

1. Precast commercial units are acceptable with prior approval.
2. Oil Trap to be outside of fencing and subject to inspection at all times.
3. Larger sizes may be required based on generation of oil and/ or sand (i..e. Bulk oil facilities, Trucking firms)
4. For lower flows Standard Plan 205 can be used with City approval.
5. For petrochemical applications Cast Iron fittings and piping will be used.

Dr. KT	No.	Date	Revision	Appr.
Ch. WS				
Date 12/00				

Approved By:

F. Wally Sandelin
City Engineer
R.C.E. 39895

9/25/02
Date

STD PLAN 315